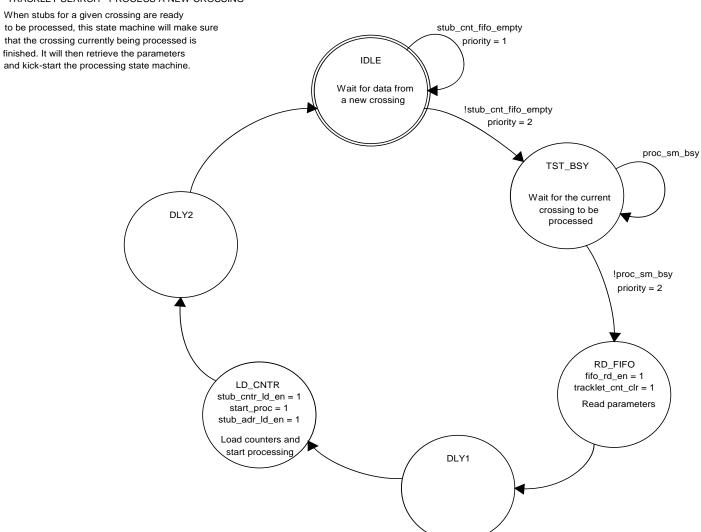
TRACKLET SEARCH - PROCESS A NEW CROSSING



OTATIE INDICTINAL			
name	TS_start_new_cross_sm		
clock	clk	posedge	
reset_signal	res	positive	
reset_state	IDLE	anyvalue	
implied_loopback	1		
INPUTS			
stub_cnt_fifo_empty			Stubs from a new crossing are ready
proc_sm_bsy			The current crossing is still being processed
clk			Pipeline clock
res			Reset
OUTPUTS			
fifo_rd_en	0	comb	Read stub counts from the input FIFO
stub_cntr_ld_en	0	comb	Load stub counters
start_proc	0	comb	Start processing this crossing
stub_adr_ld_en	0	comb	Load address of first stub
tracklet_cnt_clr	0	comb	Clear the accumulated counts from the last crossing
STATES			
fifo_rd_en	0	output	Read stub counts from the input FIFO
stub_cntr_ld_en	0	output	Load stub counters
start_proc	0	output	Start processing this crossing
stub_adr_ld_en	0	output	Load address of first stub
tracklet_cnt_clr	0	output	Clear the accumulated counts from the last crossing
TRANSITIONS			
equation	1	def_type	
priority	1000		

STATE MACHINE